



Gulf of Mexico Harmful Algal Bloom Bulletin

19 October 2006

NOAA Ocean Service

NOAA Satellites and Information Service

Last bulletin:

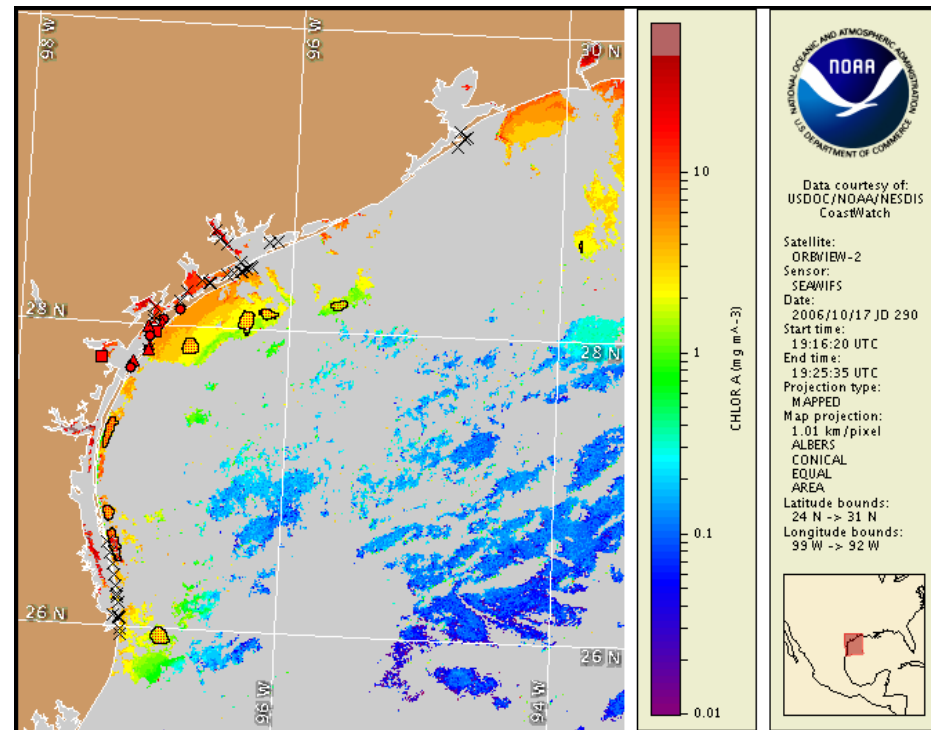
Conditions Report

A harmful algal bloom persists off the Texas coast and now extends from Aransas to Kenedy County. Very low impacts are expected today in Aransas county but patchy moderate to high impacts are expected tomorrow through the weekend. South of Aransas to Kenedy county can expect patchy moderate to high impacts along the shore today and through the weekend. Dead fish have recently been reported for Kenedy and Aransas Counties. Dead fish smell, while unpleasant, does not produce the same respiratory irritation as red tide.

Analysis

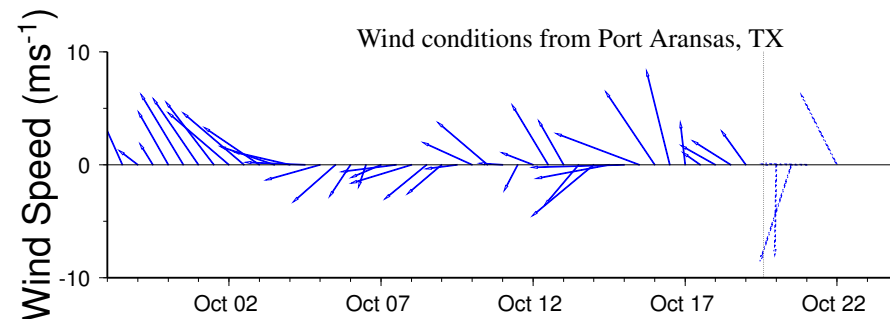
Patchy satellite imagery from October 17 indicates movement of confirmed /*Karenia brevis*/ bloom south to Port Mansfield where respiratory irritation and dead fish were reported. Imagery indicates northern edge of bloom at 27d26'N, 97d14'W although sampling has been positive for /*Karenia brevis*/ up to Port Aransas. Imagery indicates a potential bloom (yellow (approximately 2 ug/L) patch on the imagery) off-shore of Matagorda Island (from 27d47.2'N, 96d51.52'W to 28d8.54'N, 96d6.55'W) however water sampling is needed to confirm. Water samples from Corpus Christi Bay indicate cell levels from 7 - 170 cells/ml depending on sampling site.

Jewett, Lopez



Satellite chlorophyll image with possible HAB areas shown by red polygon(s). Cell concentration sampling data from October 9-18 shown as red squares (high), red triangles (medium), red diamonds (low b), red circles (low a), orange circles (very low b), yellow circles (very low a), green circles (present), and black "X" (not present). Cell concentration categories and corresponding cell count values from Florida Fish and Wildlife Research Institute. For a key to the cell concentration descriptions, visit the FWRI web site:

<http://research.myfwc.com>

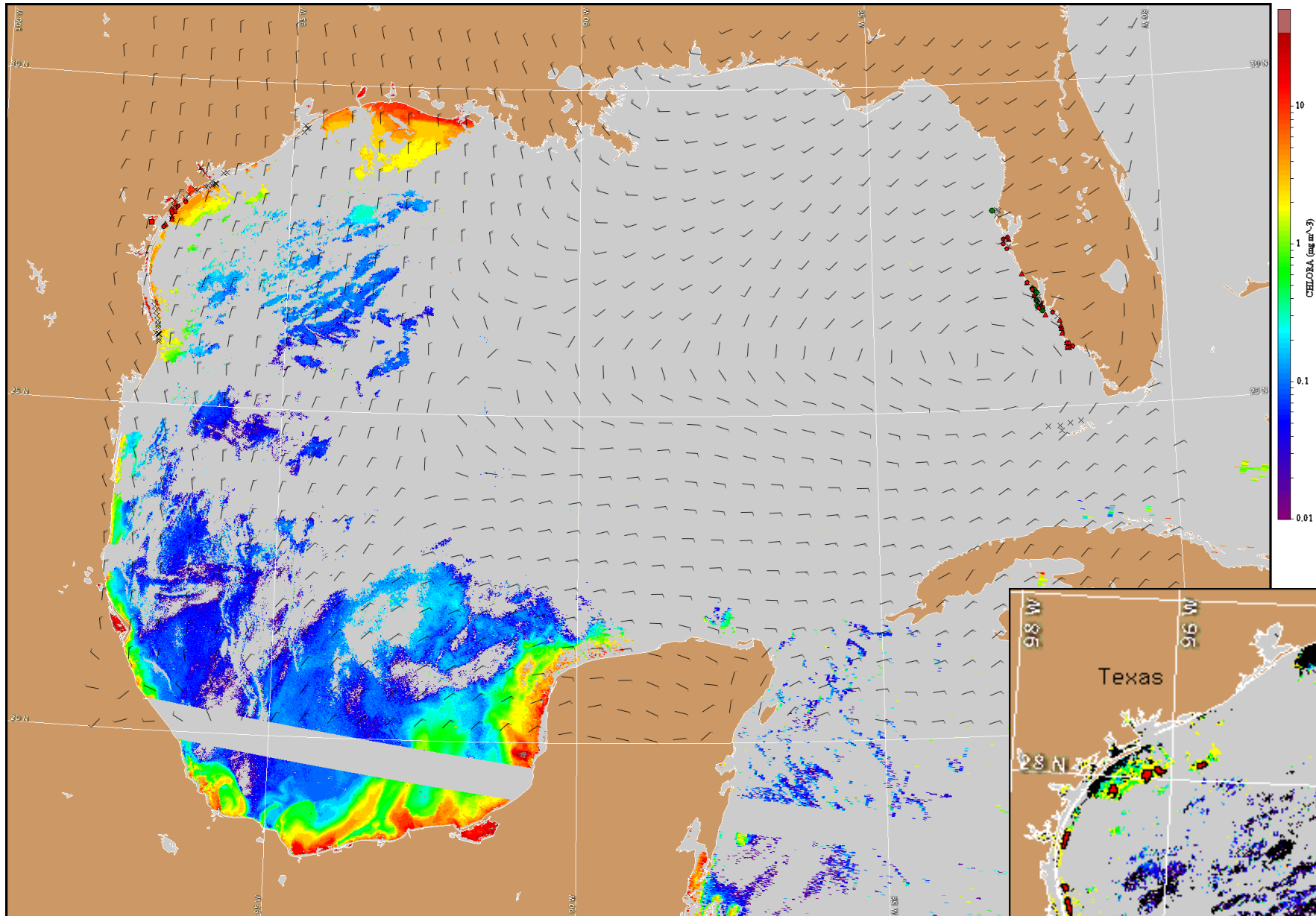


Wind speed and direction are averaged over 12 hours from buoy measurements. Length of line indicates speed; angle indicates direction. Red indicates that the wind direction favors upwelling near the coast. Values to the left of the dotted vertical line are measured values; values to the right are forecasts.

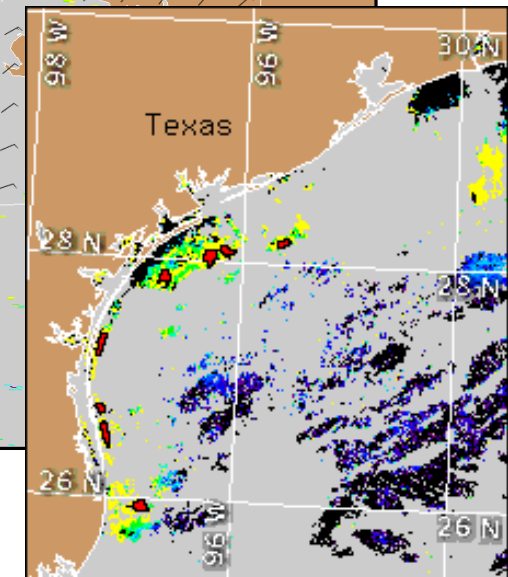
Winds shifting to a north wind today and increasing to 25 knots. On Friday, winds will shift to the northeast and will diminish to around 20 knots. On Friday night, winds will diminish again and shift to southeast (10-15 knots) through Sunday morning. On Sunday night, winds may shift again to the north and increase in strength.

Please note the following restrictions on all SeaWiFS imagery derived from CoastWatch.

1. Data are restricted to civil marine applications only; i.e. federal, state, and local government use/distribution is permitted.
2. Image products may be published in newspapers. Any other publishing arrangements must receive GeoEye approval via the CoastWatch Program.



Satellite chlorophyll image and forecast winds for October 20, 2006 06Z with cell concentration sampling data from October 9-18 shown as red squares (high), red triangles (medium), red diamonds (low b), red circles (low a), orange circles (very low b), yellow circles (very low a), green circles (present), and black "X" (not present). Cell concentration categories and corresponding cell count values from Florida Fish and Wildlife Research Institute. For a key to the cell concentration descriptions, visit the FWRI web site: <http://research.myfwc.com>



Verified HAB areas shown in red. Other areas of high chlorophyll concentration shown in yellow (see p. 1 analysis for interpretation).